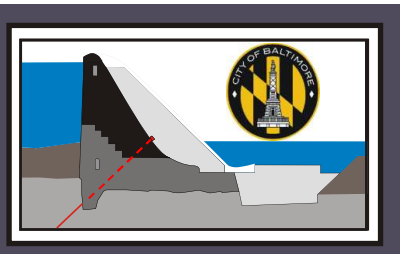
The City of Baltimore
Loch Raven Dam Rehabilitation
Project Update: December, 2003

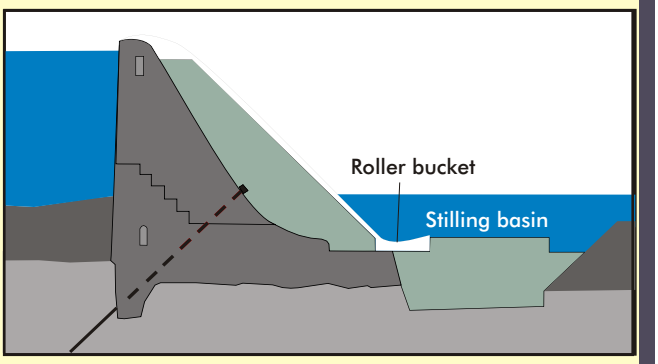


Over 60,000 Safe Hours Logged

http://cityservices.baltimorecity.gov/dpw/lochravendam/lrdam.html

Roller Compacted Concrete Placement Begins!

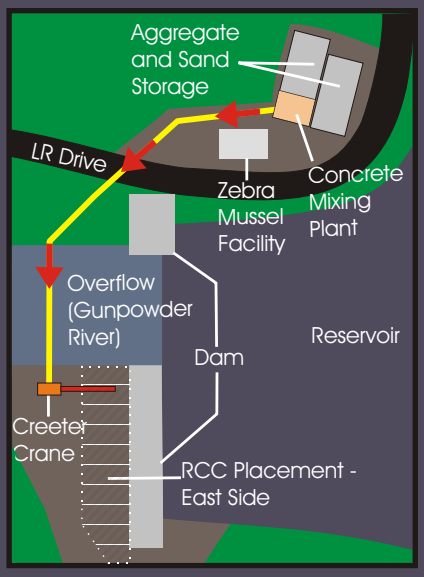
In November, the contractor began placing roller compacted concrete (RCC) on the east side spillway of the dam. Despite record-breaking precipitation over the past year, and constant flows over the spillway since February, the contractor has completed excavation on the east side and is now placing concrete. To maximize efficiency, the contractor is working 6 days a week and through the night during concrete placement.



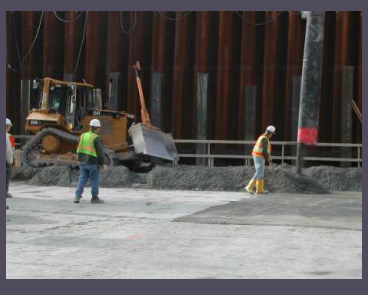
RCC (shown in green above) adds mass to dam face and stilling basin. The roller bucket and stilling basin reduce the energy of the overflow, thereby reducing erosion downstream. Conventional concrete will be used to finish the roller bucket and spillway facing.

The Johnson-Ross Bandit 12 mixing plant can produce 800 - 1,000 tons of RCC per day.

RCC is transported to the work area via electronically-controlled conveyors that can be stopped automatically if a problem occurs.



A "Creeter Crane" delivers RCC from the conveyor directly to where it is needed. The crane has a fully retractable arm that can be moved 365 degrees. Heavy equipment is then used to spread and roll the RCC.



October: excavation is complete

November: concrete placement begins

December: RCC placement in the stilling basin is complete (covered, on left) and has begun on the spillway section of the dam.

Recently Completed Work

- East side excavation

Ongoing Work

- Rock anchor installation
- RCC placement
- Gate house rehabilitation

Upcoming Work

- RCC placement - spillway and non-overflow section: east side